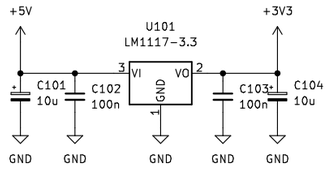
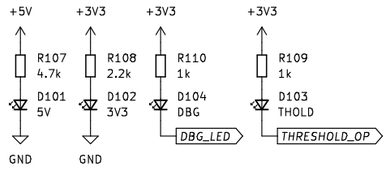
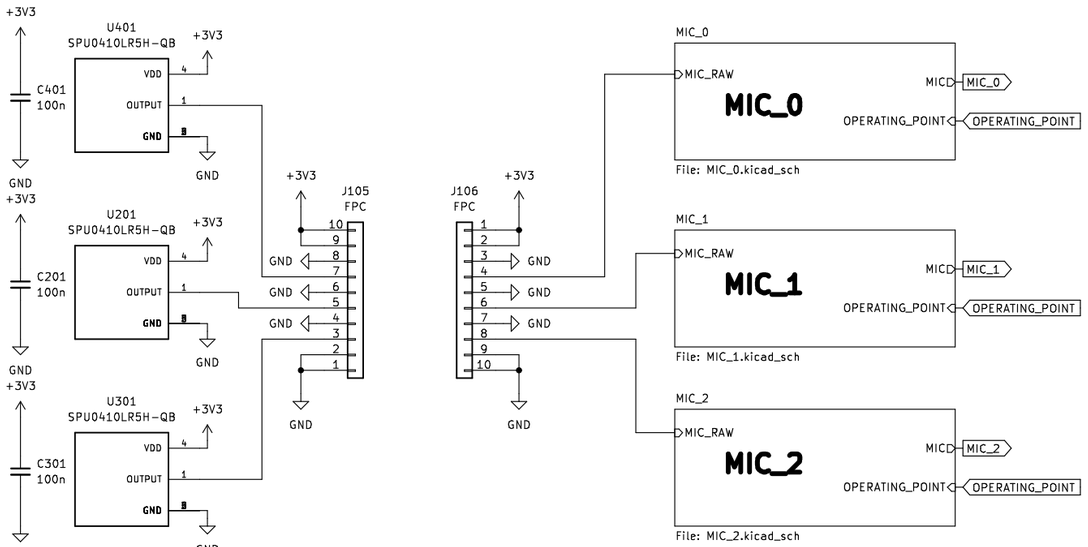
POWER SUPPLY



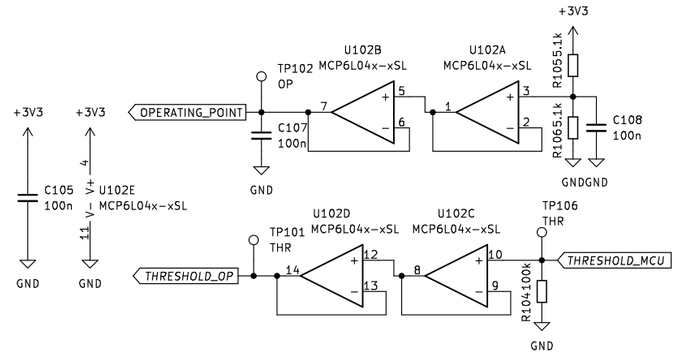
LEDS



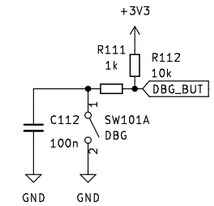
MICROPHONES



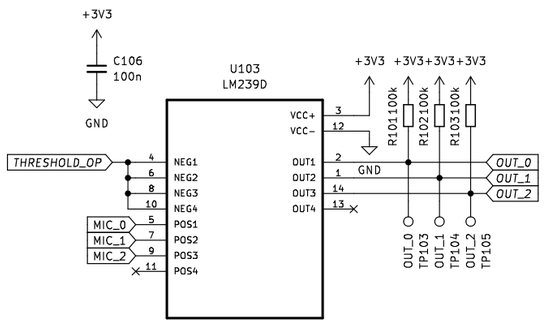
OPERATING POINT AND THERESHOLD



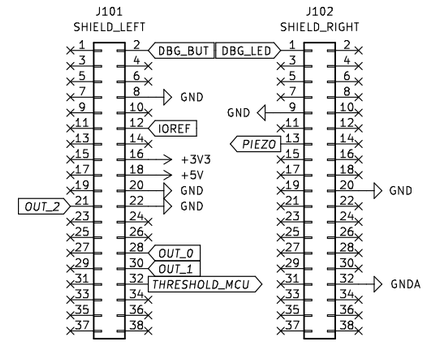
DEBUG BUTTON



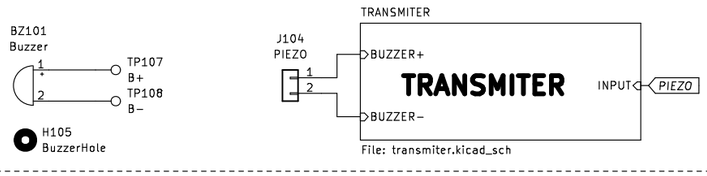
COMPARATOR



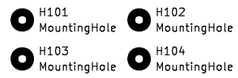
NUCLEO SHIELD CONNECTOR

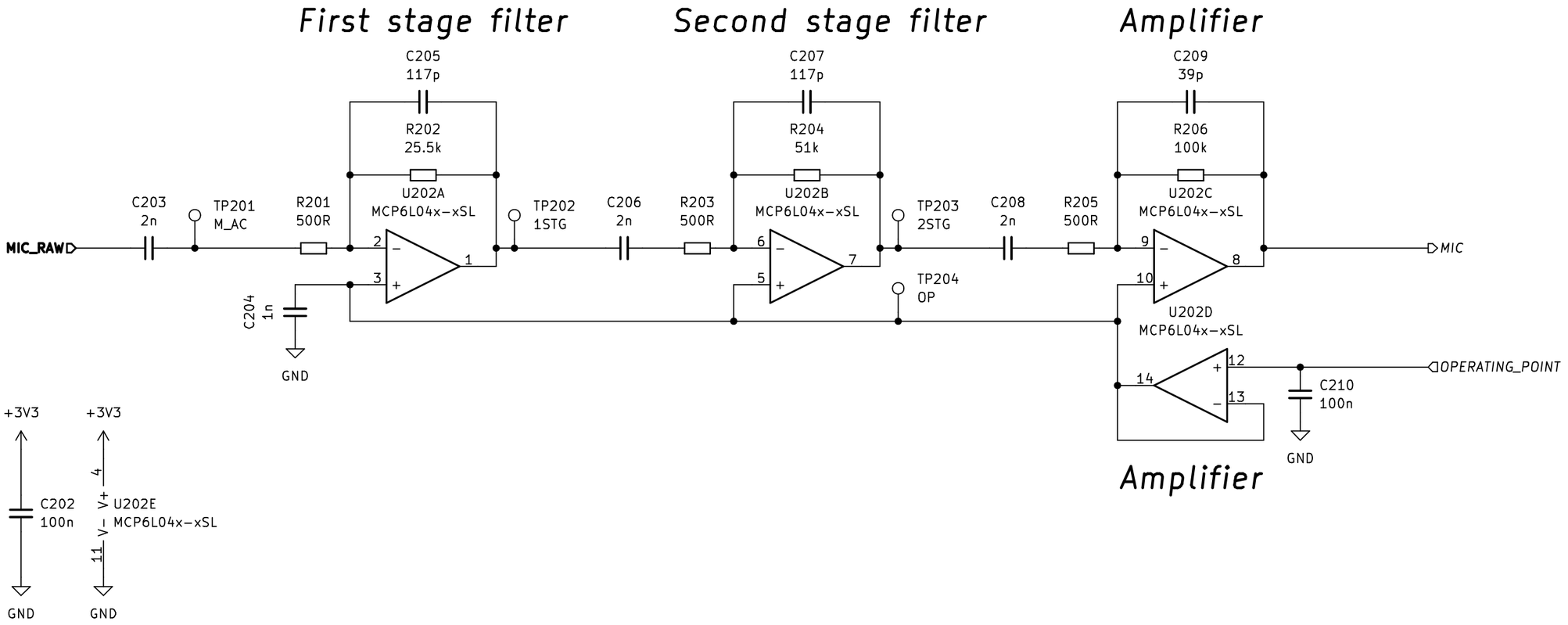


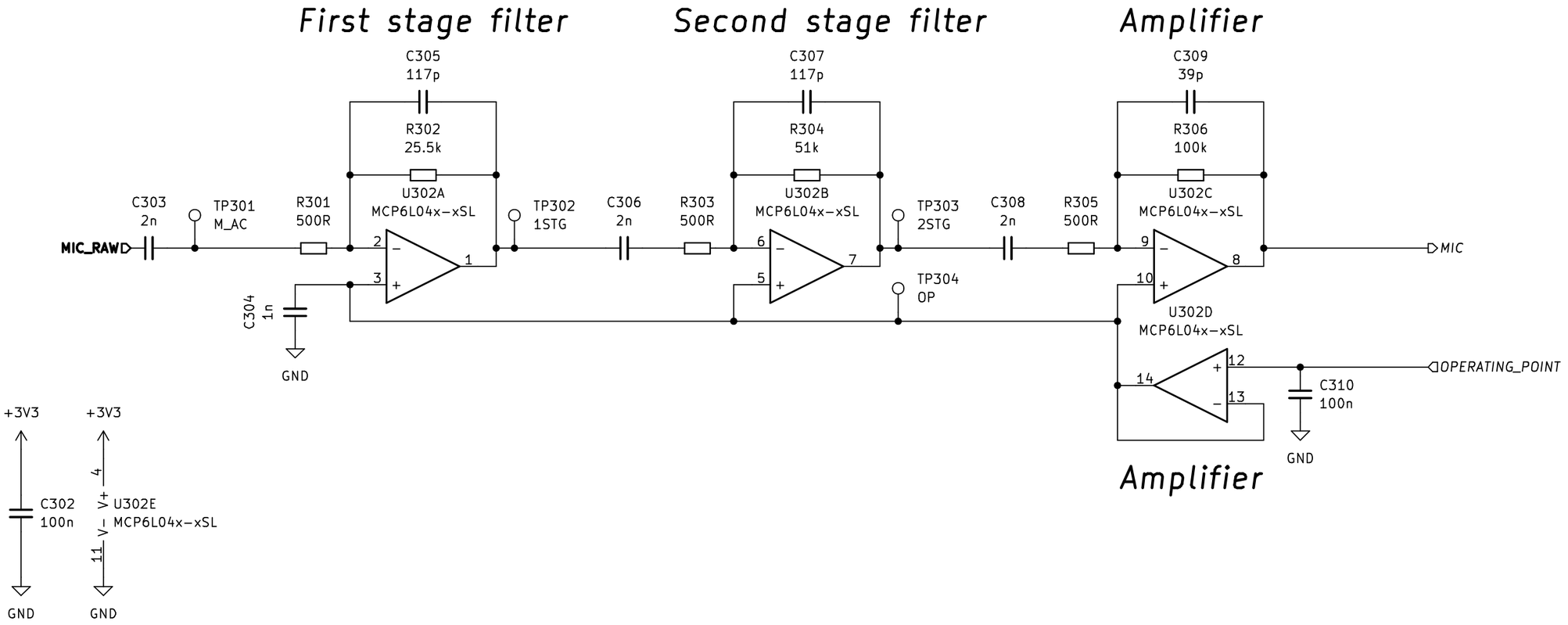
PIEZOELECTRIC AUDIO TRANSMITER



MOUNTING HOLES




First stage filter
Second stage filter
Amplifier
C205
117p
R202
25.5k
U202A
MCP6L04x-xSL
C207
117p
R204
51k
U202B
MCP6L04x-xSL
C209
39p
R206
100k
U202C
MCP6L04x-xSL
C203
2n
TP201
M_AC
R201
500R
TP202
1STG
C206
2n
R203
500R
TP203
2STG
C208
2n
R205
500R
MIC_RAW
MIC
C204
1n
GND
TP204
OP
U202D
MCP6L04x-xSL
OPERATING_POINT
C210
100n
GND
+3V3
+3V3
C202
100n
U202E
MCP6L04x-xSL
GND
GND


First stage filter
Second stage filter
Amplifier
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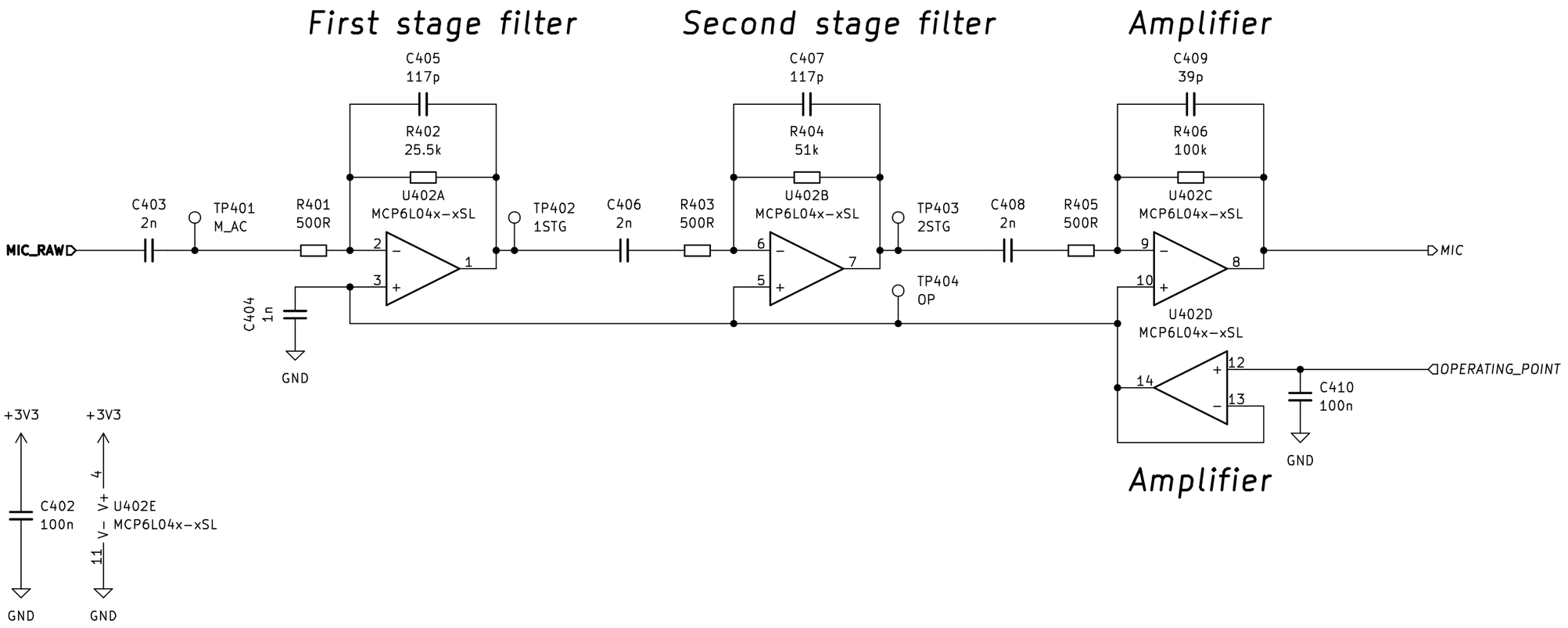
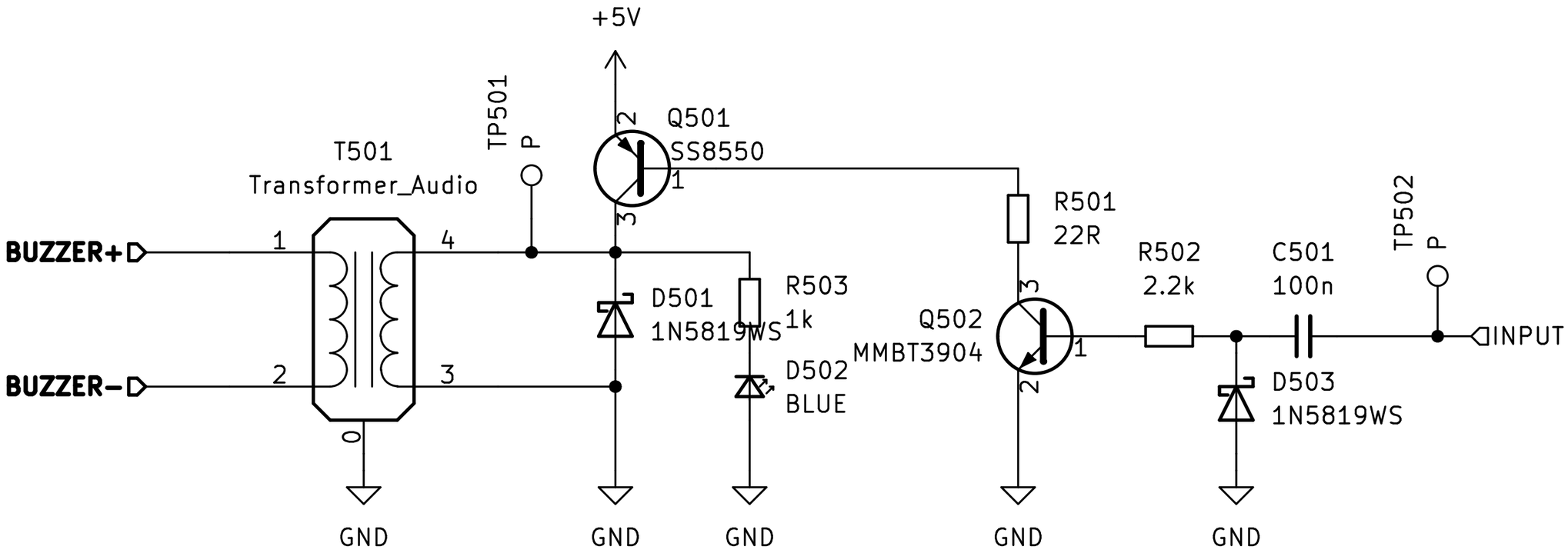
117p
R302
25.5k
U302A
MCP6L04x-xSL
C307
117p
R304
51k
U302B
MCP6L04x-xSL
C309
39p
R306
100k
U302C
MCP6L04x-xSL
C303
2n
TP301
M_AC
R301
500R
TP302
1STG
C306
2n
R303
500R
TP303
2STG
C308
2n
R305
500R
MIC_RAW
MIC
C304
1n
GND
TP304
OP
U302D
MCP6L04x-xSL
OPERATING_POINT
C310
100n
GND
+3V3
+3V3
C302
100n
U302E
MCP6L04x-xSL
GND
GND


First stage filter
Second stage filter
Amplifier
C405
117p
R402
25.5k
C407
117p
R404
51k
C409
39p
R406
100k
C403
2n
TP401
M_AC
R401
500R
U402A
MCP6L04x-xSL
TP402
1STG
C406
2n
R403
500R
U402B
MCP6L04x-xSL
TP403
2STG
C408
2n
R405
500R
U402C
MCP6L04x-xSL
MIC_RAW
MIC
TP404
OP
C404
1n
GND
U402D
MCP6L04x-xSL
OPERATING_POINT
C410
100n
GND
Amplifier
+3V3
+3V3
C402
100n
U402E
MCP6L04x-xSL
GND
GND


+5V
TP501
P
Q501
SS8550
T501
Transformer_Audio
BUZZER+
BUZZER−
1
2
3
4
0
D501
1N5819WS
R503
1k
D502
BLUE
R501
22R
Q502
MMBT3904
R502
2.2k
C501
100n
TP502
P
INPUT
D503
1N5819WS
GND
GND
GND
GND
GND